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March 30, 1993

Dr. Harmon C. McAllister
Assoc Res Dir
The Council for Tobacco Res
900 Third Ave.
New York, NY 10022

Dear Dr. McAllister:

The 1993 FASEB Summer Research Conference on "Molecular Genetic Basis of Cell and Tissue Structure and Function" will be held in Copper Mountain, Colorado on June 13-18, 1993. The central theme of the conference will be cell structure-function inter-relationships that provide a molecular genetic basis of cell and tissue phenotype development. A concerted effort will be made to integrate molecular and cellular approaches to biological processes associated with growth and differentiation as related to the development and maintenance of cell and tissue organization. We will address these timely issues from three perspectives:

1.) **Parameters of gene expression related to differentiation at the cell, tissue and organ levels.** Emphasis will be on control that accompanies pattern formation, cell shape, tissue organization, cell polarity, etc. Concepts to be emphasized will include effectiveness and validity of in vitro and in vivo models of tissue formation, developmental control of proliferation and differentiation, neoplasia as a tissue phenomenon, and positive and negative control of cell growth and tissue-specific gene expression by oncogenes.

2.) **Gene expression within the context of cellular architecture.** Contributions of the nuclear matrix to gene localization, transcriptional control and concentration/localization of transactivation factors will be systematically explored. Nuclear matrix proteins as diagnostic markers for neoplasia and skeletal disorders will be considered. Cytoskeletal involvement in co-localization of mRNAs and post-translational targeting of polypeptides as well as mRNA stability and turnover will be addressed. Contributions of the extracellular matrix to gene

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regulation, cell-cell inter-relationships, intracellular-extracellular communication and recognition by regulatory factors will be examined for cellular determination and maintenance of tissue phenotypes.

3.) **Biotechnology aspects of molecular genetic control of cell and tissue structure and function with emphasis on tissue engineering.** Here, development of artificial skin, induction of bone formation, tissue targeting of drugs and factors modulating tissue growth and differentiation as well as biocompatible materials will be evaluated.

The limited availability of funds from federal granting agencies necessitates our request for support from The Coucil for Tobacco Res for the meeting. Funds made available to us will only be used for travel expenses of invited speakers with preference given to young investigators.

We thank you in advance for your consideration and want to assure you that support to our FASEB Summer Research Conference by The Coucil for Tobacco Res will be a key element in providing the basis for a productive meeting. Needless to say, we will acknowledge support in the program provided to all speakers and participants.

We want to encourage attendance from your colleagues at The Coucil for Tobacco Res. We have therefore enclosed a copy of the program as well as several applications for participating in the 1993 FASEB Summer Research Conference on "Molecular Genetic Basis of Cell and Tissue Structure and Function".

Sincerely yours,

Gary Stein

Gary S. Stein
Co-Chairperson

Sheldon Penman

Sheldon Penman
Co-Chairperson

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